8/058/61/000/009/022/050 A001/A101

AUTHORS:

Mokhov, N.V., Kirsh I.V.

TITLE:

Changes in the range of concentration fluctuations in dependence on temperature and concentration in binary liquid systems having the upper critical dissolution temperature

PERIODICAL:

Referativnyy zhurnal. Fizika, no. 9, 1961, 167, abstract 9D21 (V sb. "Kritich. yavleniya i fluktuatsii v rastvorakh", Moscow, AN SSSR, 1960, 89 - 92)

TEXT: The authors obtained the curves of scattering of X-rays in the solutions: carbon bisulfide with methyl alcohol with 19 (I) and 32 (II) weight per cent of CS₂. I was investigated at 12 and 63° C; II - at 12, 21, 55 and 63° C; II - at 12, 21, 55 and 63° C. Scattering curves are characterized by a sharp fall-off at small angles and a number of peaks. The latter phenomenon is related to monodispersity of non-homogeneous regions. Dimensions R_oof non-homogeneous regions depend on temperature. At 12°C for II, R = 107.4 A. With temperature increasing up to 63° C, R decreases to 93.7 Å. A comparison of the range

Card 1/2

MOKHOV, N.V.; LABROVSKIY, Ya. 4. Fluctuant formations in other and benome and their v sinkles with temperature. Ekr. Siz. wher. 9 no.5:465-470 17 104. 1. Dnepropetrovskiy gosubarstvennyj universitet.

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Critical Phenomena and Pluctuations

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Skripov, V. P. [Laboratoriya molekulyarmoy finki, Uralekiy politekimicheskiy institut im. S. N. Kirova - Laboratory of Molecular Physics, Ural Polytechnic Institute Austil S. Val. Rivor. Special Structural Features of Eather an the Vicinity of the Critical Point and Trumbfor Phenomena

Skripov, V. P., and Yu. D. Kolpakov [Laboratory of Molecular Physics, Ural Polytechnic Institute iment S. N. Kirov, and Therefore and Physics, Ural Polytechnic Institute iment S. N. Kirov, and Therefore Companyates Laboratory, Vall Branch, AS USSR] Light Scattering in Carbon Dioxide along Pre- and Post-Gritical Isocherus

Smirnov, B. A. [Institut neftekhimioheskogo sinteza AN SOSR -- Card 7/9]

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Critical Phenomena and Photuations

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Kasimov, R. M., and M. I. Shakdaporonov [Laboratory of the Physical Chemistry of Solutions, Onceditry Division, Noseow State University Iment M. V. Losmonov]. Dielectric Properties of Solutions in Electrosymptotic Fields of the Millimetric Band and Concentration Fluctuations

Krichevekly, I. R., and M. V. Knazonova [Laboratoriya vysokikh con Stat! Designam Plaming Scientific Research Institute of the Mitrogen Industry]. Diffusion of Liquid and Gaseous Solutions in the Critical Region

Krichevsky, I. R., and Yu. V. Tsekhanskaya [Laboratory of Card 4/9

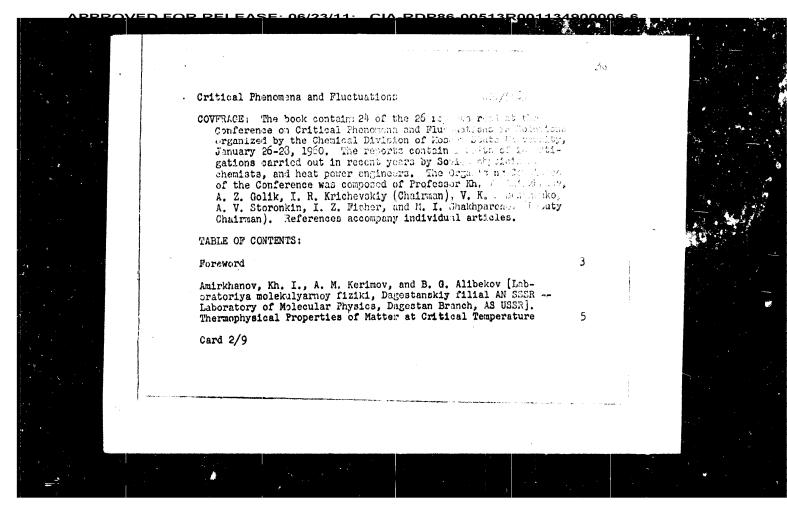
Critical Phenomena and Fluctuations

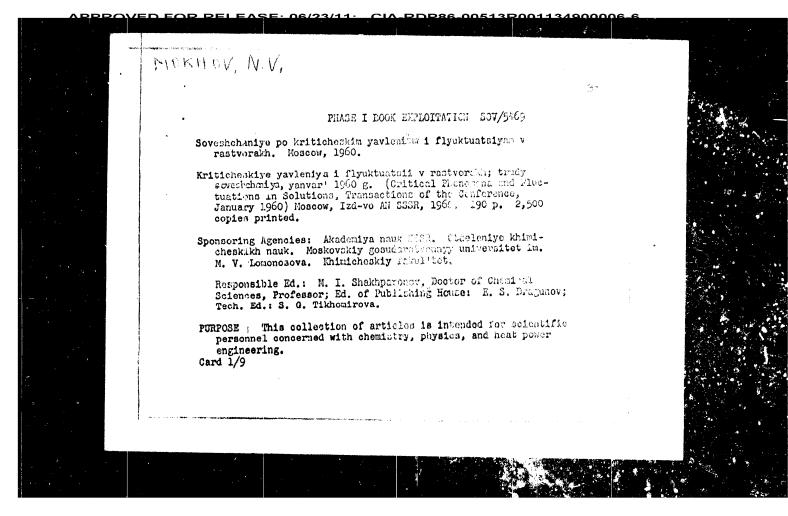
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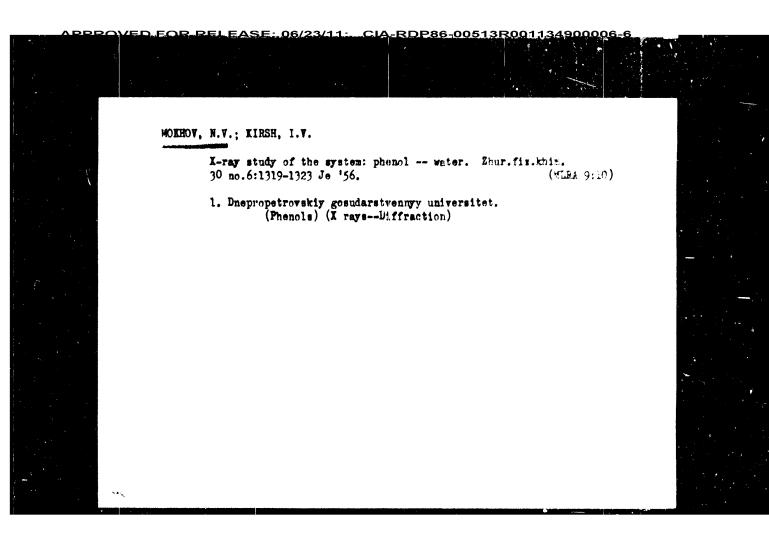
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Vuke, N. P., and L. I. Lisayanskiy (Laboratoriya melekulyamoy optiki, Finichesky fabul tot, Leningradskiy posudarstvennyy universited im. A. A. Zhalenovi, Intermolecular Laboratory of Nolecular Optics, Physics Division, Lond State University imeni A. A. Zhalenovi, Intermolecular intermolecular intermolecular and Laboratory for Solutions of Pyridine and X. Flooline in Water

Card 3/9







PPROVED FOR RELEASE: 06/23/11: CIA-PDP86-00513P001134900006-6

ACCESSION NR: AR4032178

S/0058/64/000/002/E005/E005

SOURCE: Ref. zh. Fiz., Abs. 2E33

AUTHORS: Mokhov, N. V.; Kolesnichenko, K. Ye.

TITLE: On the polymorphism of liquids

CITED SOURCE: Nauchn. zap. Dnepropetr. un-t, v. 61, 1963, 54-57

TOPIC TAGS: liquid, polymorphism, salol, menthol, x-ray diffraction study, structural change, supercooled state, liquid dielectric

TRANSLATION: The results of an x-ray diffraction investigation of salol (from -30 to +90C) and menthol (from +24 to 90C) are presented and offer evidence that no considerable changes occur in the structures of these substances over the entire investigated range of states, including the supercooled state.

DATE ACQ: 31Mar64

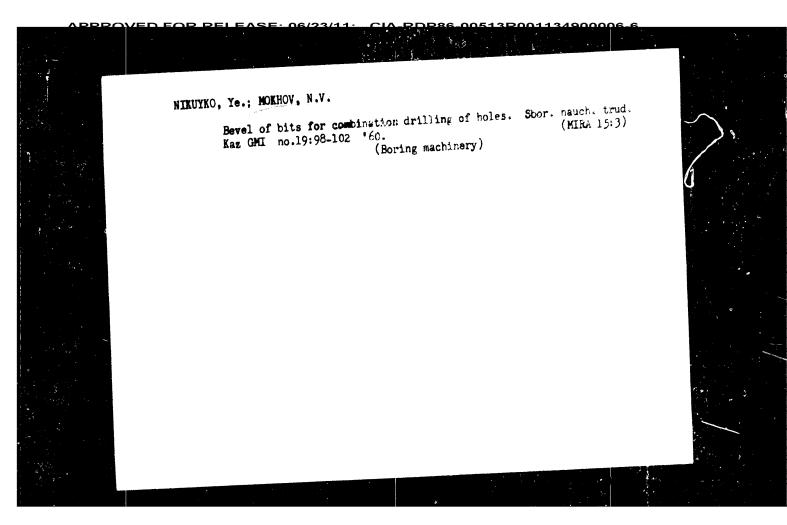
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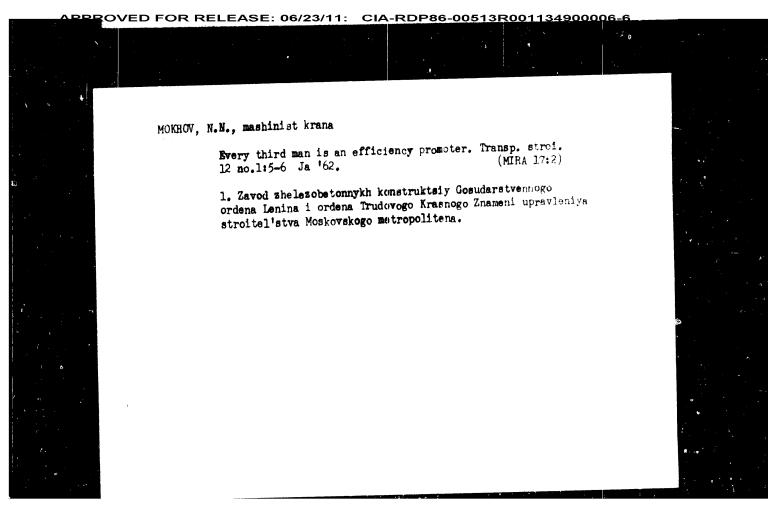
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KIM, M.F., kand. tekhn. nauk; MOKHOV, N.V., insh. Practice of using worsheld charges with air spaces in Kasakhstan spaces 1. Kasakhskiy politekhnicheskiy institut. (Kasakhstan—Blasting)





MERSON, Rikolay Ivanorich; SHIRTATH, In.S., red.; MATSUK, R.V.,
red.ind-ws; MURASHOVA, V.A., tekhn.red.

[Swerage profit and production costs] Srednisis pribyl'
i teans proinvoistvs. Monkvs, Gos.ind-vo "Tysahaia shkols,"
1961. 25 p.

(Profit) (Costs, Industrial)

MCKHOV. N.L.; KHIDOKORMOV, G.N., red.; ROTOVA, R.S., red.isd-va;

OUROKHOVA, S.S., tekhn.red.

(Capital and surplus value. Fundamental economic law of capitalism; lecture on a course in political economy) Kepital i pribavochnala stolmost*. Osnovnoi ekonomicheskii sakon kapitalisma; lekteiia po kursu politicheskoi ekonomii. Noskva, Ges.isd-vo "Vysshaia shkola," 1959. 34 p. (KIRA 13:4)

(Ronomics)

MOKHOV, N. A., brigadir betonshchikov We are increasing the manufacture of supports for overhead contact systems. Transpstroi 13 no. 11:31 N '63. (MIRA 17:5) 1. Ryazanskiy zavod zhelezobetonnykh konstruktsiy.

LAVIT, Stpl' Elikovich; MOKHOV, Hikolsy Andreyevich; ODUD, Afanasiy
Lokich; GROSULA, Ya.S., čtv.red.; IVANOVA, B.S., red.izd-va;
RTLIMA, Yu.V., tekim.red.

[Moldavian S.S.R.] Moldavaksis SSR. Moskva, lzd-vo Akad.nauk
SSSR, 1959. 94 p. (Moldavia)

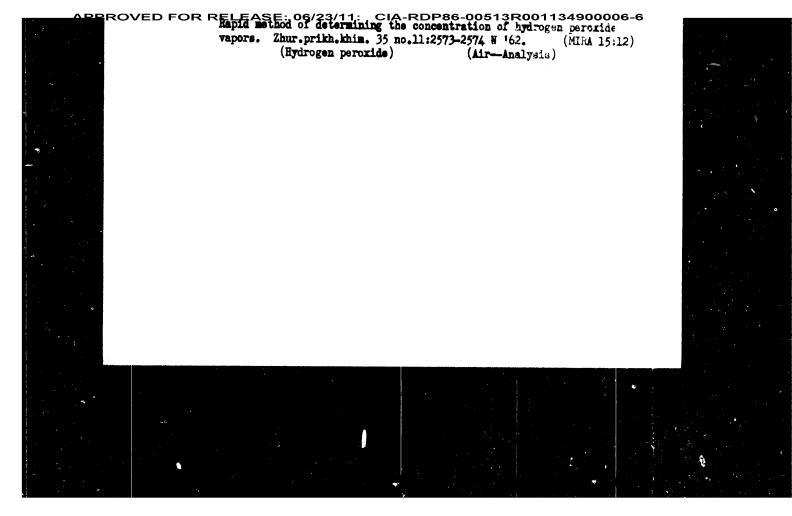
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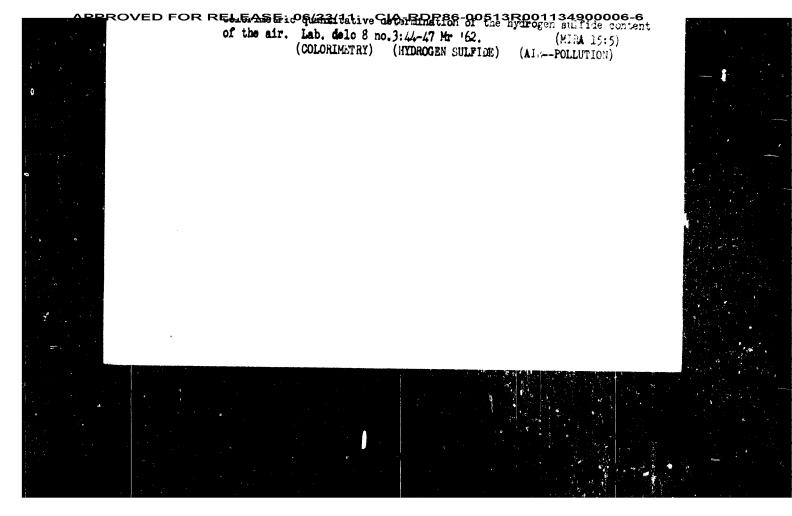
NAUMOV, I.A.; MOKHOV, L.N.

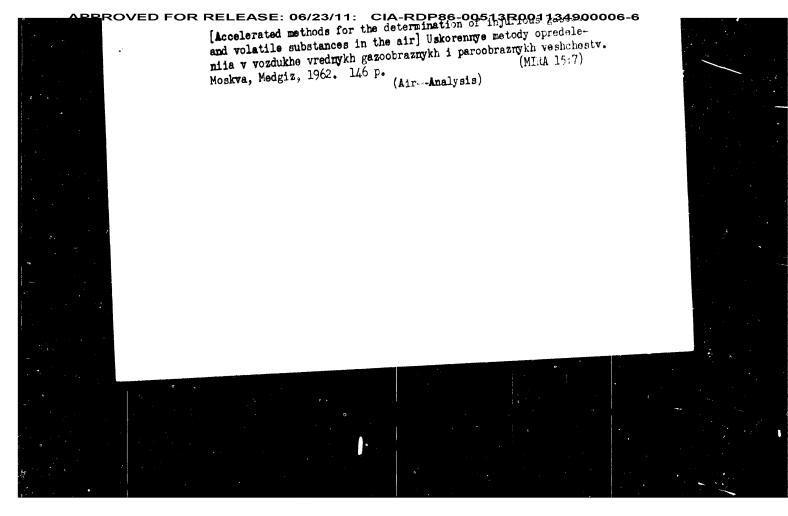
Resistance of wheat kernels to dynamic loads. Izv. vys. ucheb.
zav.; plahch, teith, no.3:7-13'60. (MHM 14:8)

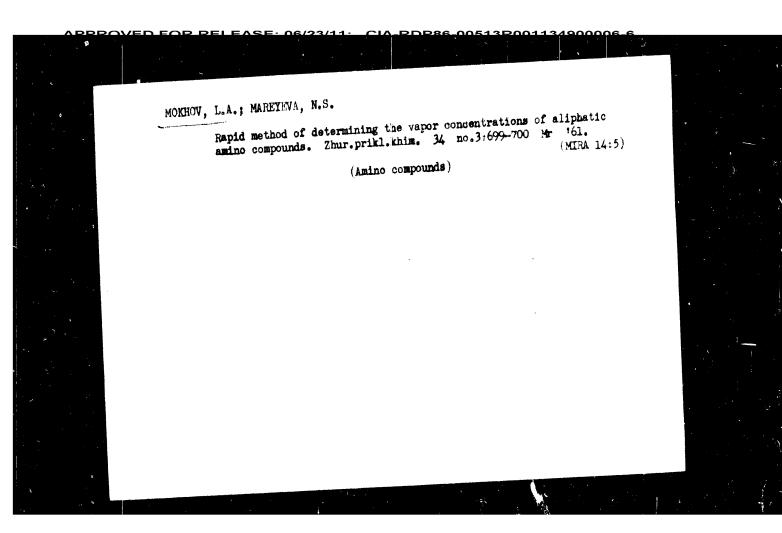
1. Moskovskiy tekhnologicheskiy institut pishchewoy promyshlennosti, Kefedra mukomol'nc-krupyanogo proizvodstva.

(Wheat)





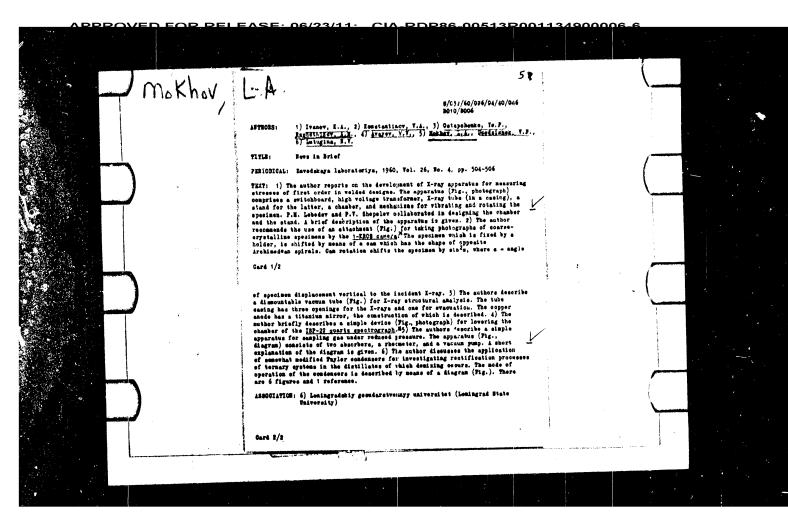




MOKHOV, L. A., CAND CHEM SCI, "INVESTIGATION OF THE CHELE, CLASSITION OF VOLATILE PRODUCTS FORMED IN LAMBELTAR
MICAL COMPOSITION OF VOLATICE PRODUCTS FORMED IN LAMBELTAR
MICAL COMPOSITION OF CERTAIN TYPES OF MINERAL
LUBRICATING OILS UNDER CONDITIONS OF AVIATION OPERATIONS."

MOSCOW, 1961. (MIN OF HIGHEN AND SEC SPEC ED RSFSR. MOSCOW
Cham, Tach
URder of Lenin Chemisms Technological Inst Imeni D. I.

MENDELEYEV). (KL-DV, 11-61, 211).



Mokhov, L.A., Udalov, Yu.F., Khalturin, V.S. SOV/80-32-2-46/56 AUTHORS: Special Indicator Pipes for the Fast Determination of Mitrogen Oxides in the Air of Makey Bulldings (Spetsial nyye indika-TITLE: tornyye trubki dlya bystrogo opredeleniya okislov azota v vozdukhe promyshlennykh pomeshcheniy) Zhurnal prikladnoy khimii, 1959. Vol XXXII, Nr 2, PERIODICAL: pp 452-453 (USSR) An indicator made of n-aminobenzoic acid and N-acid on sili-ABSTRACT: cagel is used in papes for the determination of nitrogen oxides in air. The indicator has a raspberry-color which changes in the presence of nitrogen oxides. The color is compared with a standard scale which is obtained by testing known oxide concentrations. The sensitivity of the apparatus is 0.0005 mg/l. The indicator is specific, i.e. it does not change color in the presence of other, hydrochloric acid, mercury, etc. There is 1 table and 9 references, 8 of which are Soviet and 1 German. August 23, 1957 SUBMITTED:

Card 1/1

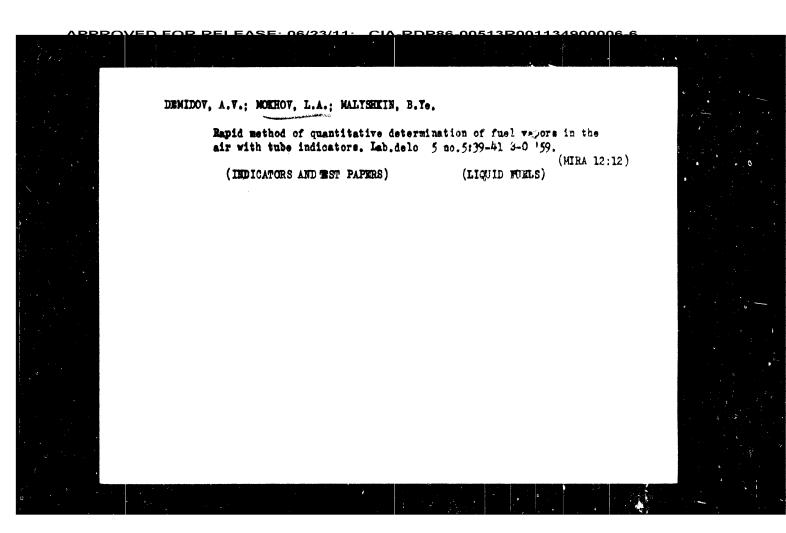
MOMEOT, L.A. (Moskva); MALTSHKIN, B.Te. (Moskva)

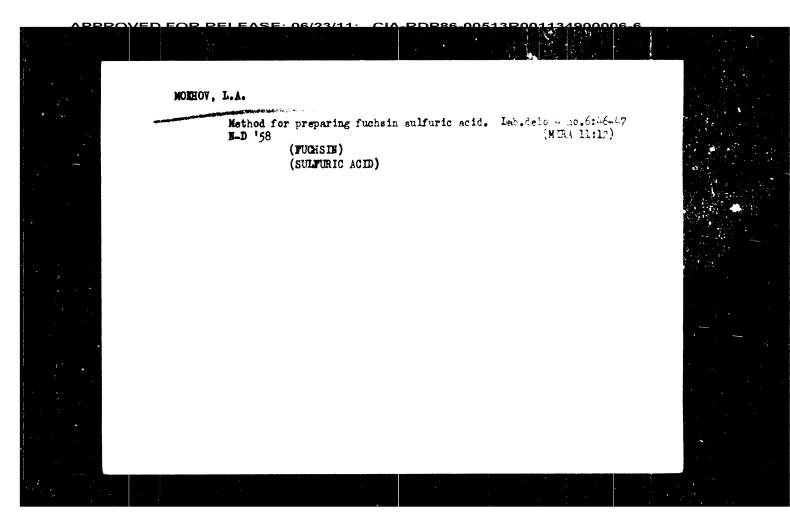
Determination of aliphatic awino compounds. Oig. 1 san. 24 no.9:81 s 159. (MIRA 13:1)

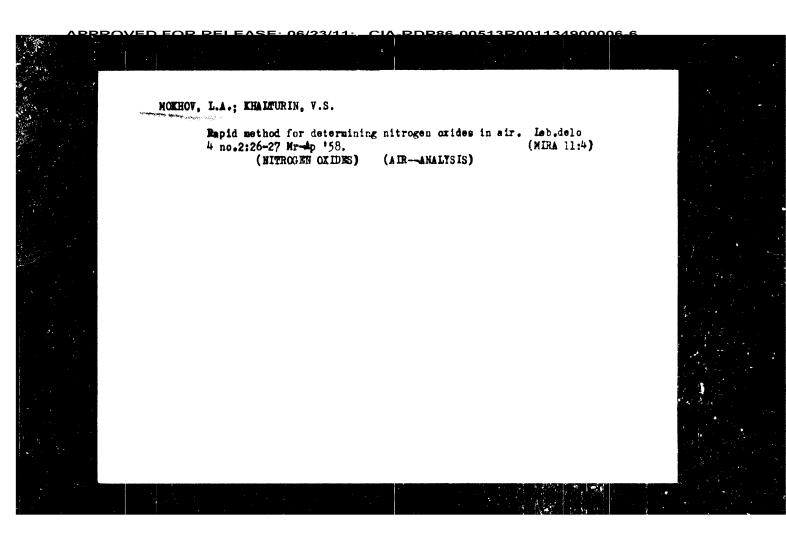
MOKHOV, L.A.; DEEDZICHEN, V.P.

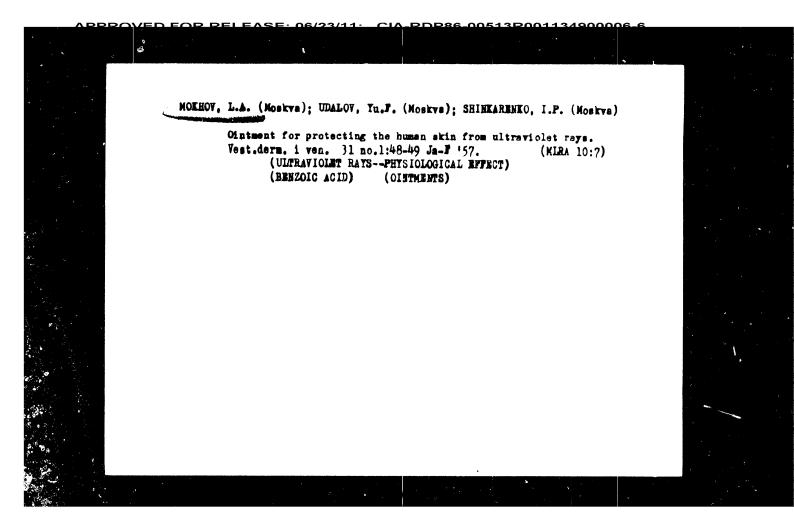
Repid method for determining ozone in air. (ev. as., p. 111125-1305 (M.HA. 13:4))

(Caone)







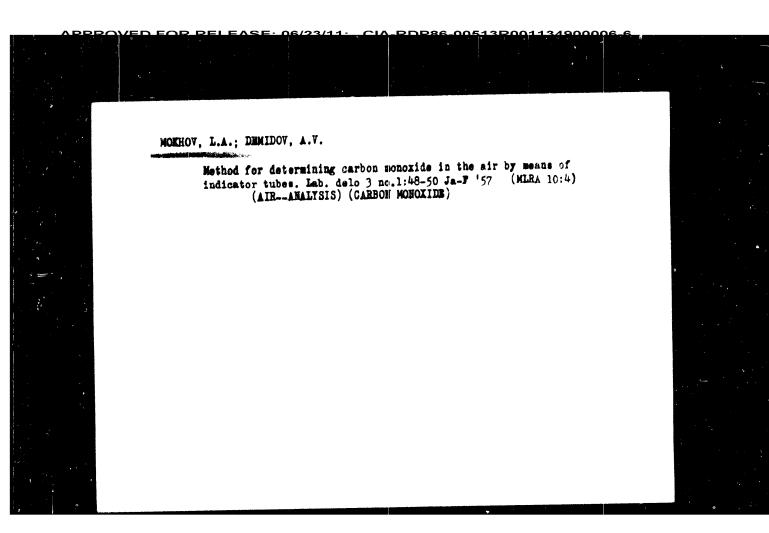


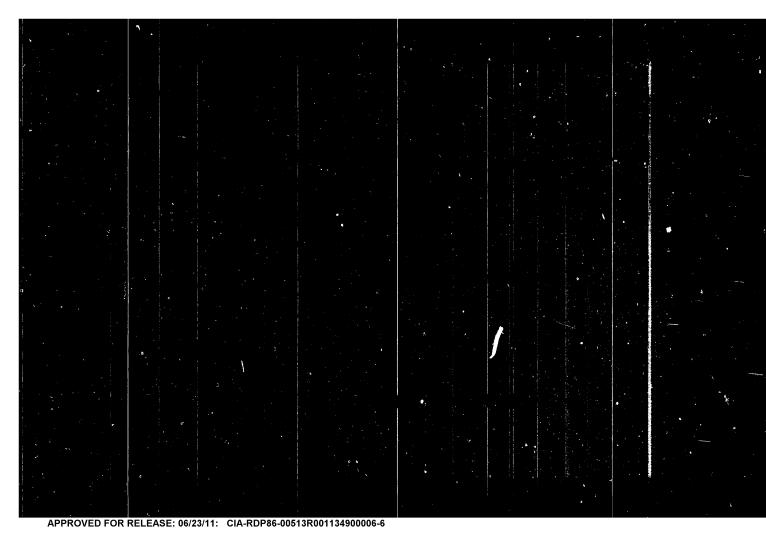
MOKHOV, L. A.,

DEMIDOV, A.V., pedpolkovnik meditainskey slushby; MOKHOV, L.A., inshener-leytenants

Determination of air humidity with indicator tubes. Gig. i man. 22 no. 2:64-65 F '57 (NURA 10:4)

(SUMIDITY, determ. indicator tube technic)





Medicinals. Vitamins. Antibiotics.

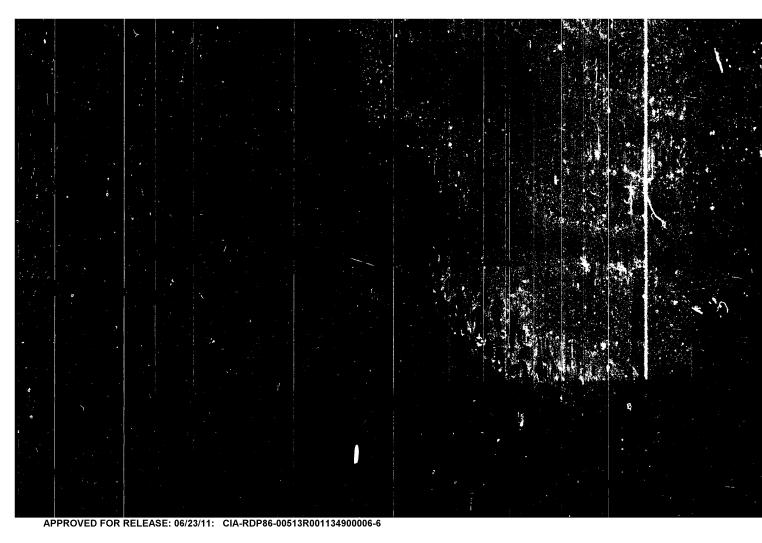
Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32285

Author: Mokhov L.A.

Title: Conditions of Formation of Crystalline Hydrochloride of 2-Amino-Thiazol

Orig Pub: Zh. prikl. khimii, 1956, 29, No 5, 804-805

Abstract: Description of the procedure of preparing crystalline 2-aminothiazol hydrochloride (I) (used in the production of norsulfazol) by mixing crystalline hydrate of Cichello (II) with NH2CSNH2 (III). Mixture of 14.5 g II and 9.8 g III is thoroughly ground in a mortar and allowed to stand for 12 hours; the reaction takes place



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ACC NR. AR6031886

consequently, anomalous conductivity, the specially prepared specimens must be subjected to a preliminary optical treatment either with white light or with light with Accessor A. F. Nad'. [Translation of abstract]

SUB CODE: 20/

BWT(1)/EWT(m)/EWP(t)/EU1

ACC NR AR6031886

SOURCE CODE: UR/0058/66/000/006/E093/E093

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AUTHOR: Mokhov, G. D.; Bazakutsa, V. A.

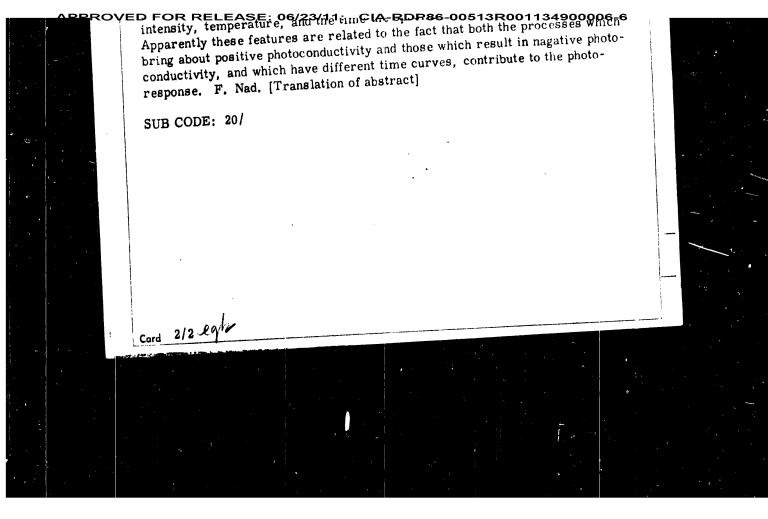
TITLE: Optical processing of selenium specimens possessing anomalous photoconductivity

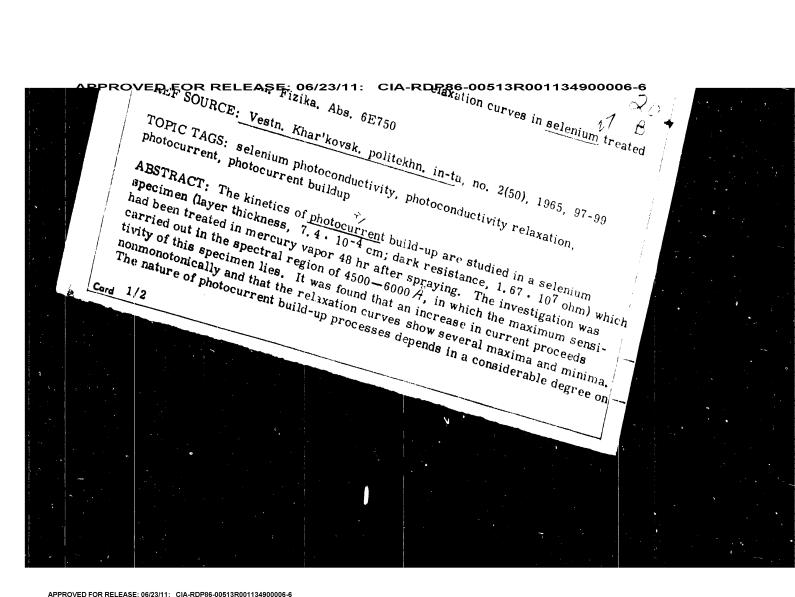
SOURCE: Ref. sh. Fizika, Abs. 6E733

REF SOURCE: Vestn. Khar'kovsk. politekhn. in-ta, no. 2(50), 1965, 110-115

TOPIC TAGS: selenium, photoconductivity, anomalous photoconductivity, photoresistance, photoeffect, photoresponse

ABSTRACT: The anomalous photoconductivity of Se layers obtained by vapor deposition under vacuum on glass substrates and treated in Hg vapors was investigated. For some of these photoresistances, the photoresponse value does not depend on incident light intensity but only on the wavelength. It is shown that only those Se-photoresistances with inherent simultaneous presence of both positive and negative photoeffects possess anomalous photoconductivity. It was found that the presence of "quasidark" conductivity is a sign that the specimen possesses anomalous photoconductivity. To obtain "quasidark" conductivity and,





ACC NR: AP6006117

ACC NR: AP6006117

CIA-RDP86-00513R001134900006-6

was moved relative to the optical probe with the aid of a micrometer screw, so that the photosensitivity of different sections of the screw, so that the photosensitivity of different sections of the sample oculd be determined. The sample preparation technology was with a monochromator (UM-2). The sample preparation technology was with a monochromator (UM-2). The maximum relative photosensitivity described in the earlier paper. The maximum relative photosensitivity above its dark value) occurred at approximately 0.25 mm from the edge of the metallic electrode with proximately 0.25 mm from the edge of the metallic electrode with which the photosensitive region is in contact, regardless of the wave-which the photosensitive region is in contact, regardless of the wave-wavelengths of the splined light. In the case of wavelengths longer than lengths of the applied light. In the case of wavelengths longer than sondwartivity. At lower wavelengths, certain sections of the region conductivity. Qualitatively next be the sleatrode had negative photoconductivity. Qualitatively next be the sleatrode had negative photoconductivity. Qualitatively next be the sleatrode had negative photoconductivity. Qualitatively next be the sleatrode. The results confirm the earlier deductions which the mercury atoms do not penetrate uniformly in the electrode regions of the investigated samples during production of the layer. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 10Jul64/ ORIG REF: 005/

mat(1)/mat(a)/mtc(f)/mtc(a) SOURCE CODE: UR/0139/66/000/001/0182/0183 26

AUTHORS: Mokhov, G. D.; Bavykina, V. N.; Bazakutsa, V. A.

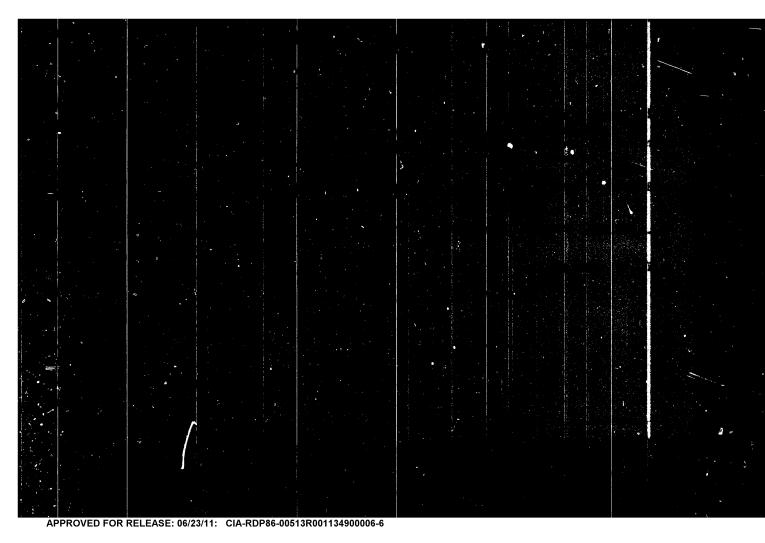
ORG: Knar kov Polytechnic Institute (Khar kovskiy politekhnicheskiy institut

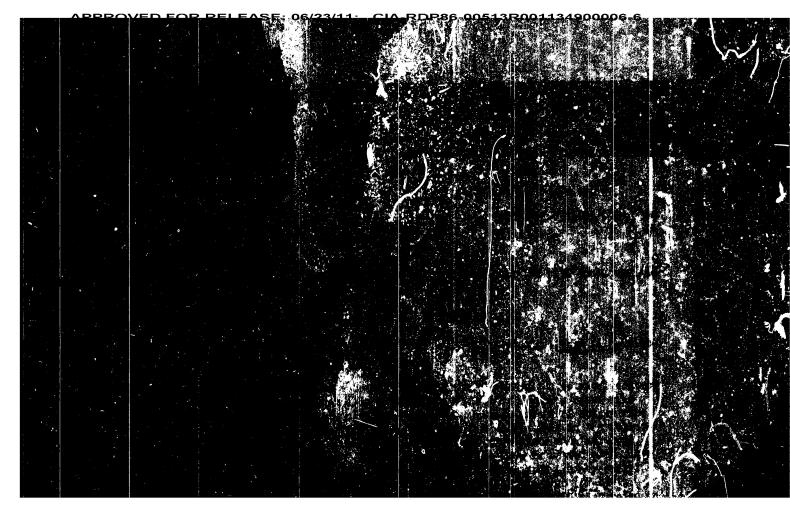
TITLE: Distribution of the photosensitivity of selenium samples having anomalous photoconductivity

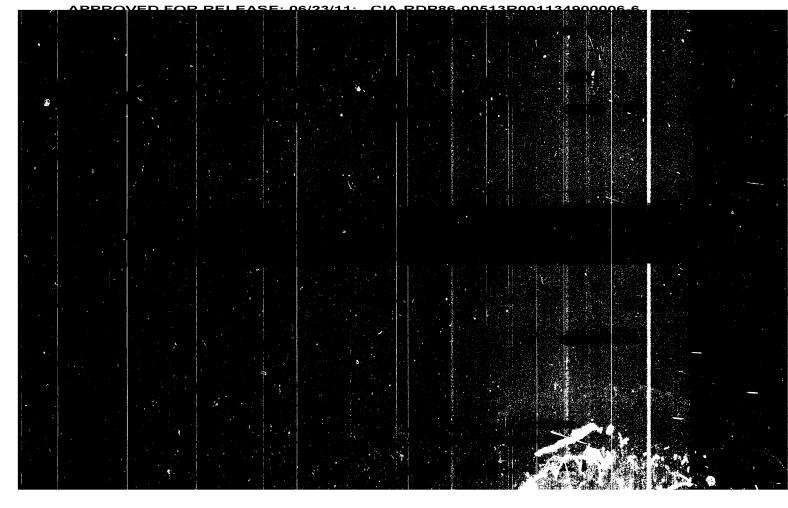
SOURCE: IVUZ. Fizika, no. 1, 1966, 182-183

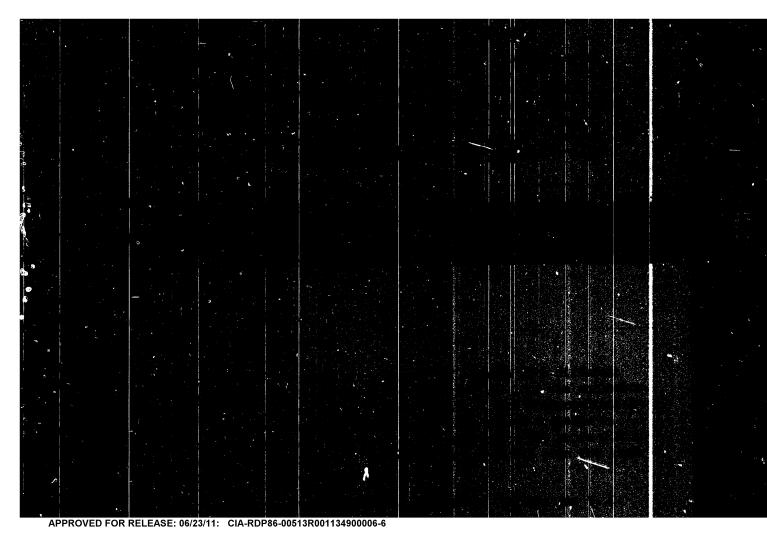
TOPIC TAGS: selenium, photoconductivity, photosensitivity, mercury containing alloy

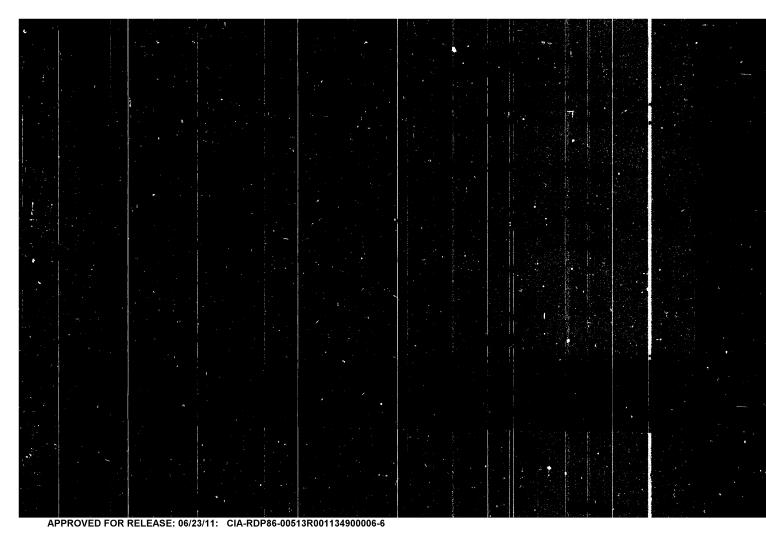
ABSTRACT: This is a continuation of earlier studies of the photoconductivity of selenium treated with mercury vapor (Izv. vuzov SSSR, Firka, No. 5, 182, 1964 and others). In the present paper the author present experimental results of an investigation of the distribution of the photosensitivity in the light-sensitive region near the electrode. The investigation was made with a specially prepared setup, in which an optical probe of width 0.1 mm was produced. The sample

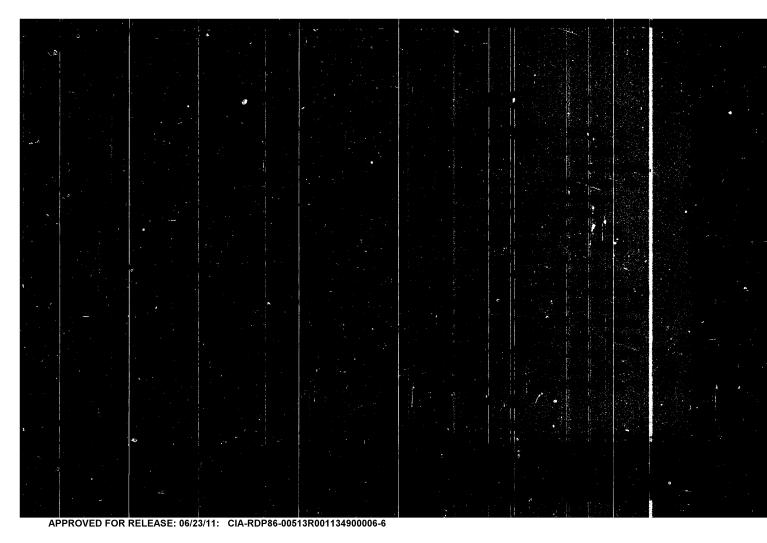


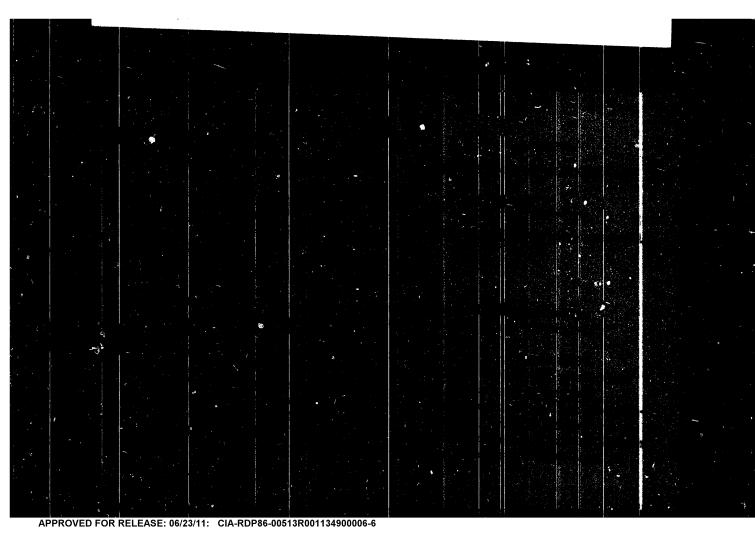












9.4177 (1035) 26.2421 28084 \$/181/61/003/009/616 033 B102/B104

AUTHORS:

Korsunskiy, M. I., Pastushuk, N. S., and Mokhov, G. D.

TITLE:

A new type of photoconductivity

PERIODICAL:

Fizika tverdogo tela, v. 3, no. 9, 1961, 2667-2668

TEXT: The authors discovered a new type of photoconductivity in mercury-doped selenium. They studied the dependence of this photoconductivity on wavelength and intensity of illumination. The specimens were irradiated with monochromatic light in a vacuum chamber (10 $^{-6}$ mm Hg) and the photoconductivity change was recorded by a loop oscilloscope. The curves of f(t) for illumination wavelengths between 0.425-0.715 μ were taken and dark conductivity was measured. It was found that upon illumination with $\lambda = 0.535\mu$ conductivity did not change, at $\lambda > 0.535\mu$ it increased and at $\lambda < 0.535\mu$ it decreased. The transient period of a steady conductivity is much shorter in illumination with short-wave light than in illumination with light of longer wavelengths. On illumination with any monochromatic light (except for $\lambda = 0.425\mu$) the photoconductivity of the specimen

Card 1/4

8/181/61/003/005/009/042 B101/B214

Exclusion of the influence ...

The results are random and uncontrollable. Nevertheless, some samples could be obtained for which Δc differs but little from Δc ph max, and $(\Delta r/r) \cdot 100\%$ at 2.5·10⁻⁶ w/cm² reaches a value of 85-97%. The table gives results of measurement in the range 360-460 mm. The samples investigated remained unchanged for two years under atmospheric conditions and gave reproducible results. There are 6 figures, 1 table, and 2 Soviet-bloc references.

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut imeni V. Į. Lenina (Khar'kov Polytechnic Institute imeni V. I. Lenin)

SUBMITTED:

April 1, 1960 (initially); January 20, 1961 (after revision)

Hossep ofpeaus	R, on	<u>.</u>	#	Ae _m	Δσ φ.π: *φ.	Δσ ₂₀ , οм ⁻¹ · мγ ⁻¹ (○
2	7.40 · 10 ⁸	0.58	0.42	0.63	11.40	6.55 · 10 ⁻³
3	2.17 · 10 ⁴	0.65	0.85	0.36	3.25	13.00 · 10 ⁻³
56	1.41 · 10 ⁹	0.11	0.89	5.43	23.6	0.68 · 10 ⁻³
6	10.12 · 10 ⁹	0.003	0.997	50 .50	53.50	0.77 · 10 ⁻³

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Exclusion of the influence ...

S/181/61/003/005/009/042 B101/B214

of light) it is written: $\Delta \sigma = f(I)/r^2 \sigma_{ph}^2 \left[1 + f(I)/r \sigma_0 \sigma_{ph}\right]$ (2). For $\Delta \sigma = \Delta \sigma_{max}$: $1/\Delta \sigma_{max} = (r^2/r_{ph}^2) \left[1/f(I)\right] + r_0 r/r_{ph}$ holds (3). Introducing $a = r^2/r_{ph}^2$, $b = r_0 r/r_{ph}$ (4) one obtains: $1/\Delta \sigma_{max} = a/f(I) + b$ (5). If the function $1/\Delta \sigma_{max} = 1/f(I)$ becomes linear, a and b can be calculated and r_0 and r_{ph} determined from them. I) For typical samples for which the change of resistance $(\Delta r/r) \cdot 100\%$ corresponds to a $\Delta \sigma_{max}$ of 20-30%, $1/\Delta \sigma_{max} = q[1/f(I)]$ was determined at 360-460, 600-720 mm (Fig. 2). The existence of the non-photoactive resistance r_0 was thus confirmed. For intensities $10^{-5} - 10^{-3}$ w/cm² the condition $\Delta \sigma_{ph}$ max max and is masked by r_0 . Experiments were undertaken to obtain samples with small r_0 . [Abstracter's note: The method of these experiments is not given] Card 2/4

9,4300 (1138,1147,1164)

S/181/61/003/005/009/042 B101/B214

26.2421

AUTHORS:

Korsunovskiy, M. I., Pastushuk, N. S., and Mokhov, G. D.

TITLE:

Exclusion of the influence of non-photoconductive layers in the investigation of the photoconductivity of layers of

amorphous selenium with mercury impurity

PERIODICAL:

Fizika tverdogo tela, v. 3, no. 5, 1961, 1366-1370

TEXT: Amorphous selenium treated with mercury vapor shows an anomalous luxampere characteristic. The maximum photoeffect tends to a constant saturation value. From this the interference is drawn that the samples studied possess a non-photoactive resistance r_0 . The object of the present work was to detect its existence. A start is made from the fact that the experimentally measured resistance r can be put as $r_{\rm ph} + r_0$, where $r_{\rm ph}$ is the resistance that alters with exposure. Let $\Delta\sigma$ be the observed change of conductivity; $\Delta\sigma_{\rm ph}$ its true value; and σ_0 , $\sigma_{\rm ph}$ the dark conductivity of the non-photoactive, and the photoactive part, respectively. Then $\Delta\sigma = \Delta\sigma_{\rm ph}/r^2\sigma_0^2 (1 + \Delta\sigma_{\rm ph}/r^2\sigma_0^2)$ (1). Since $\Delta\sigma_{\rm ph} = f(I)$ (I = intensity Card 1/4

83362

5/139/60/000/004/020/033 E201/E591

Photoconductivity Kinetics of Amorphous Selenium Layers Treated with Mercury Vapour

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut imeni

V. I. Lenina

(Khar'kov Polytechnical Institute imeni V. I. Lenin)

SUBMITTED:

June 29, 1959 (initially) March 26, 1960 (after revision)

Card 3/3

83362 \$/139/60/000/004/020/033 E201/E591

Photoconductivity Kinetics of Amorphous Selenium Layers Treated with Mercury Vapour

irrespective of the polarity of the applied voltage. Initially the photoconductivity rose very sharply, reached a maximum ($\Delta \sigma$ and then decreased slowly reaching a steady-state value ($\Delta \tau$) max) in 4-5 min. A family of oscillograms representing the dependence $\sigma = \sigma_d + \Delta \sigma = \phi(t)$, where σ_d is the dark conductivity, is shown in Fig. 4. Figs. 5-10 show, as a function of the intensity of illumination, $\left(\frac{d\sigma}{dt}\right)_{t} \rightarrow 0$ (Figs. 5 and 6), $\Delta \sigma_{max}$ (Figs. 7 and 8),

kinetics of mercury-treated selenium layers depended strongly on the wavelength of illumination, on its intensity and on the polarity of the applied electric field. The negative photoconductivity sufficient intensity. The positive photoconductivity decay became intensity. There are 10 figures and 5 references: 4 Soviet and Card 2/3

83362

9.4177

s/139/60/000/004/020/033 E201/E591

24.3600

Korsunskiy, M.I., Pastushuk, N.S. and Mokhov, G.D.

AUTHORS: TITLE:

Photoconductivity kinetics of Amorphous Selenium Layers

Treated with Mercury Vapour

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1960, No.4, pp.167-172

The paper deals with photoconductivity of amorphous selenium layers treated with mercury vapour and exhibiting both positive and negative photoconductivity (positive means here enhancement of the electrical conductivity by illumination, negative means reduction of the electrical conductivity). Seleniua layers were produced by vacuum deposition (at 10^{-5} mm Hg) on glass plates. The layers were from 2 x 10^{-4} to 3.5 x 10^{-4} cm thick. The electrode positions are shown in Fig.1. The experiments extended over the following wavelength ranges: 360-460, 530-580, 600-720, 740-1000 mμ. Figs. 2 and 3 give typical oscillograms showing the dependence of the change in the conductance ($\triangle c$) with time (t) under illumination with light of 10^{-4} W/cm² intensity. The oscillograms show that illumination raised the conductivity Card 1/3

On the Photoconductivity of Sulfur Layers
Exposed to the Action of Mercury Vapor

ASSOCIATION: Ethar?kovskiy Politekhnicheekiy institut
(Khar:kov Polytechnic Institute)

SUBMITTED: November 19, 1959

82550

On the Photoconductivity of Sulfur Layers Exposed to the Action of Mercury Vapor s/181/60/002/007/039/042 B006/B060

32 - 35 minutes with the use of sunlight. It was further shown that photo activity differed in various parts of the sample; the differences amounted to almost one order of magnitude. The highest activity was exhibited by the layer at the points over an electrode. A loop oscilloscope with a d-c amplifier and a galvanometer was used for the measurement of photo. conductivity, and a projection lamp (400 *) served as light source. Spectral measurements were made on a monochromator of the type //4-2 (UM-2). Fig. 2 shows $\Delta \sigma = f(t)$ for a sample irradiated with $\lambda = 453$ and 645 mm at room temperature. At $\lambda = 453$ mm photoconductivity rises, passes through a maximum, and drops (below the value of darkness) deeply into the negative range (negative photoconductivity). At $\lambda = 645$ mm a rise is observable with subsequent saturation (sluggish positive photoconductivity). Such a dif ferent behavior is also found if the conductivity of the sample whose photoconductivity was effected by 453 and 645 mm, respectively, is measured in the dark (Fig. 3). The dark conductivity is maintained for 2.5 hours in both cases. There are 3 figures and 4 references: 2 Soviet and 4 British.

Card 2/3

MOKHOV, GD

82550

S/181/60/002/007/030/042 B006/B060

24.7700

Pastushuk, N. S., Mokhov, G. D.

AUTHORS: TITLE:

On the Photoconductivity of Sulfur Layers Exposed to the

Action of Mercury Vapor

PERIODICAL:

Fizika tverdogo tela, 1960, Vol. 2, No. 7, pp. 1581 1583

TEXT: In a previous paper (Ref. 1) the authors had already found that layers of amorphous selenium treated with mercury vapor exhibited both positive and negative photoconductivity. The development of photoconduc tion proved to be complicated and very sluggish. In the present paper the authors examined sulfur layers. The samples were prepared by vacuum sputtering of sulfur (1005 torr) onto a glass plate 18 mm in diameter. Gold electrodes were applied at intervals of 3 - 4 mm (Fig. 1). The sulfur layer had a thickness of (2-3).10-4 cm and a dark resistance of 1012 ohms. After it had been treated with mercury vapor, its resistance dropped to 10⁶ ohms and less, depending on the duration of treatment. At room temperature the treatment took 4 - 5 days; at 70° C, 7 - 8 hours. The authors found a peculiar catalytic action of sunlight: The treatment took no more than

Card 1/3

S/058/62/000/007/045/068 A061/A101 Negative photoconductivity in... the spectral dependence of absorption was measured in the near infrared (up to 2.5 μ). /B V. Sidorov [Abstracter's note: Complete translation] Card 2/2

9.4177

s/058/62/000/007/045/068 A061/A101

AUTHORS:

Korsunskiy, M. I., Pastushuk, N. S., Litvinova, L. B., Mokhov, G. D.,

Reznik, M. B.

TITLE:

Negative photoconductivity in mercury-doped selenium layers

PERIODICAL:

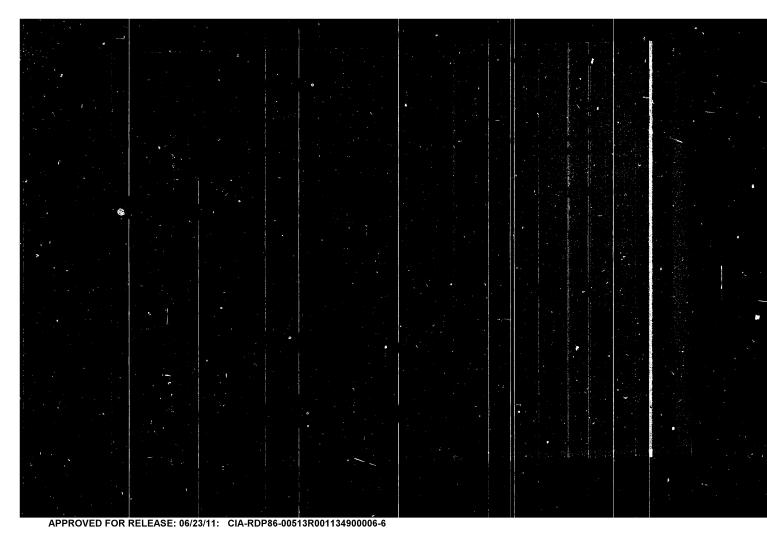
Referativnyy zhurnal, Fizika, no. 7, 1962, 32, abstract 7E245

(In collection: "Fotoelektr. i optich. yavleniya v poluprovodnikakh".

Kiyev, AN USSR, 1959, 220 - 226)

The photoconductivity of amorphous Se layers doped with mercury vapors TEXT: was investigated. The layers were produced by evaporation of Se in vacuum and condensation on a glass backing. A comparatively low-inertial positive photoconductivity and an inertial negative one were observed when illuminating the layers with white light. On an increase in the concentration of mercury atoms in the layers the value of positive photoconductivity dropped, while that of negative photoconductivity rose to a certain limit, and thereupon dropped. Both negative and positive photoconductivity were examined as functions of the layer temperature, of the intensity and the spectral composition of light. In addition,

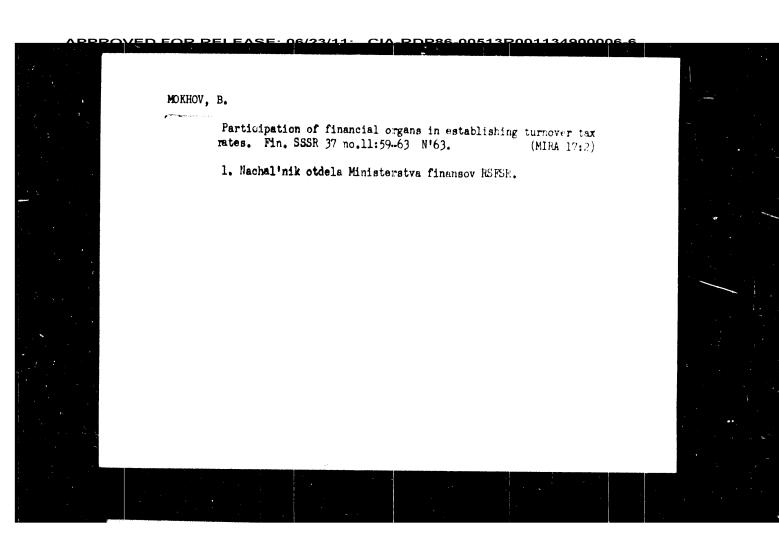
Card 1/2



MOKHOV, Boris Ivanovich; DYACHENEO, Aleksandr Akimovich;
FRETMAN, Tamara Iosifovna; MILLIONSHCHIKOV, A.D., etv. red.

[Payments and compensations from budget funds to organizations operating on a profit! Wyplety i vameshcheriia khosorganam eredstw iz biudzheta. Moskva, Finansy, 1965, 86 p.

(MIRA 18:7)



AUTHORS:

Omel'chenko, A.I., and Mokhov, A.V., (deceased)

TITLE:

An Optical Instrument for Measuring the Radius of Curves (Opticheskiy pribor dlya izmereniya radiusa zakrugleniya)

PERIODICAL:

Izmeritel'naya tekhnika, 1958, Nr 1, pp 18 - 19 (USSR)

ABSTRACT:

This is a detailed description of the design and operations of a new optical device, consisting of a double microscope, for checking the radius of edges of small bores. The device produces an "optic section", visible in the focus plane of the ocular, from which the bore radius must be computed. The absolute error of measurements on radiuses of 0.5 to 0.8 mm is about 0.03 to 0.05 mm. There is 1 photo, 1 diagram and 2 Soviet references.

1. Curved profiles--Measurement 2. Optical instruments--Performance

Card 1/1

SOURCE CODE: UR/0182/66/000/009/0038/0038 ACC NR: AP6031733 AUTHOR: Mokhov, A. I.; Danilin, S. I. ORG: none TITLE: Improved heating conditions for lKhl6N4B steel ingots and billets SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 9, 1966, 38 met forging/ TOPIC TAGS: stainless steel, steel ingot heating, 1Kh16N4B stainless steel ABSTRACT: The Volgograd Machine Building Plant makes ring forgings from 3.7-ton 1Kh16N4B stainless-steel ingots. Until recently the heating of ingots required 35-40 hr. Now, cold ingots are charged into a furnace having a temperature of max 1000C and held at this temperature for 4-5 Mr. The total heating time was reduced to 15-17 hr. It was found that this accelerated heating procedure yielded forgings with satisfactory macro- and microstructure and mechanical properties. The respective tensile strength of tangential and longitudinal specimens was 134.2 and 134.0 kg/mm², yield strength 118.7 and 98.7 kg/mm², elongation 13.7-10.7%, reduction of area 53.5-51.0% and notch toughness 8.7-11.5 mkg/cm2, all greatly exceeding the requirements of specifications. Orig. art. has: 2 tables. 5088 SUB CODE: 13// SUBM DATE: none/ ATD PRESS: UDC: 621.78.5

VOL'KHIN, B.A.; MOKHOV, A.I.; SUKHORUKOV, V.G. New device for measuring the displacement of rocks in mine workings. Gor. shur. no.6:71-72 Je '64. (MIRA 17:11 (MIRA 17:11) 1. Ural'skiy nauchno-issledovatel'skiy i proyektnyy institut mednoy promyshlennosti, Sverdlovsk.

MOKROV. Anatoliy Aleksandrovich; SHELINERTY, Georg y Ivanoved.

KHAGEMEYSTER, Ye., red.

[Systematic process of operations of the qualitative sentemicroanalysis of cations and writins; a mommal on qualitative analysis] Sistematicheski khok akebstvomene qualitative analysis Sistematicheski khok akebstvomene qualitative analiza kationov i anionov, uchebnoe posoble po kathestvomenomu analizu. Leningrad, Severo-zapadnyi zaochnyi ir-t.

1964. 37 p. (Piba 18:1)

MILLER, A.D.; MORROV, A.A.; TURYLEVA, L.V.

Method of determining microquantities of molybdemsm in a superispessed salt halo. Sockhimits no.7:610-615 '61. (META 14:6)

1. Yessoyumny nsuchno-issledovatel'skiy institut metodiki, i tekhmiki ravvedki, Severo-mapadnoye geologicheskoyeupravleniye, Leningrad. (Molybdemsm ores)

Use of the Biogeochemical Method in Prospecting for Nickel on the Kola Peninsula

SOV/7-59-3-8/13

centrations were found in the leaves of birch-trees; repeated taking of samples showed (Fig 6) that the nickel content is highest in summer and fall. In samples taken of the soil the layers having a thickness of from 0 to 3 cm, and from 3 to 20 cm were separated and extracted with weak sclutions of hydrochloric acid of different pH value (Table 3). Solutions of of pH 6 do not extract nickel, such of pH 3 about 45%, of samples of plants and soils in damp areas have a higher nickel references.

ASSOCIATION:

Leningradskiy ordena Trudovogo Krasnogo Znameni tekhnologicheskiy institut im, Lensoveta (Leningrad Order of the Red Labor Bannam Technological Institute imeni Lensovet)

SUBMITTED:

October 9, 1958

Card 2/2

14(5) AUTHORS: Aleskovskiy, V. B. Mokhov, A. A., Spirov, V. N. SOV/7-59.3-8/13 TITLE: of the Bicgerchemical Method in for Nickel on the Kela Peninsula (Ispol'zovaniye "respecting biogeokhimicheskogo memoda poiskov nikelya na Koliskom PERIODICAL: Geokhimdya: 1959, Nr 3: pp 266-272 (USSR) ABSTRACT: Investigations were carried out of the nickel content in water, plants, and in the soil for four profiles. The water of the area investigated contains no nickel, which is probably due to the high pH value (Table 1) and the abundant precipitations. Only the most frequently occurring plants were investigated: fir-tree (pirus triesiana), the subarctic birch (betula subarctica), the stunted birch (betula tertuosa) and the bilberry (vaccinium myrtillus). Botanical determination of plants was carried out by the Pelyarne-alipiyskiy hotanicheskiy sad Kol'skogo filiala im. S. M. Kirova Akademii nauk SSSR (Arctic-Alpine Botanical Gardens of the Kola Branch imeni S. M. Kirov of the A.ademy of Sciences USSR). The nickel Card 1/2 content is in each case shown graphically. The highest con-

MOKHOV, A. A. Cand Chem Soi -- (diss) "Development of methods of the quantitative determination of nickel in natural water, vegetable matter, and soil." Len, 1959
19 pp with grpshs (Min of Higher and Secondary Specialized Education RSFSR.
Len Order of Labor Red Barmer Technological Inst im Lensovet), 150 copies
(KL, 48-59, 113)

ALESKOVSKIY, V.B.; DOBYCHIN, S.L.; KEDRINSKIY, I.A.; MILLER, A.L.; MIKHEYEVA, A.I.; MOKHOV, A.A.; NAZAROVA, Z.N. Determination of trace elements in natural waters after a pre-liminary concentration by the method of "sinking particles." Trudy LTI no.48:12-21 '58. (Mida) (MIRA 15:4) (Trace elements) (Water, Underground)

MOCHOV, A.; OMELCHENKO, A.

"Optical instrument for measuring the radius of a curvature." P. 166.

JEMA MECHANIKA A OPTIKA. (Ministerstvo presme ho strojirenstvi a Ustav pro vyzkum optiky a jemme mechaniky). Fraha, Czechoslovakia, Vol. li, No. 5, May 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August, 1959.
Unola.

ED FOR RELEASE: 06/23/11: CIA-PDP86-00513P001134900006-6

L 40238-66

ACC NR: AP6019641

tion of the eutectic mixture was carried out in ampules $120 \times 18 \times 10\,$ mm. Samples were selected every 10 mm in which the content of the calcium impurity was determined by the flame photometry method. The experiment showed that the zone melting method can reduce the content of the calcium impurity in strontium compounds. Thus, after three passes of the zone at a rate of 7 mm/hr the calcium content dropped to 0.004% at its initial value of 0.016%. A study of the effect of certain impurities on the effective coefficient of distribution of the calcium impurity when purifying the mixture $Sr(NO_3)_2 + KNO_3$, revealed that an increase in the content of zinc, iron, and nickel impurities lowers the efficiency of reducing the calcium impurity concentration. Orig. art. has: I table and 2 figures.

SUB CODE: 07, // SUBM DATE: 24Feb65/ ORIG REF: 006/ OTH REF: 006

Card 2/2

EWF(m)/EWF(t)/ETI/EWF(k)

ACC NRI AP6019641

SOURCE CODE: UR/0149/66/000/003/0081/0034

AUTHOR: Mokhosovev, M. V.; Got'manova, T. T.

ORG: Donetsk Branch, All-Union Research Institute of Chemical Reagents and Especially Pure Substances (Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh reaktivov i osobo chistykh veshchestv (Donetskiy filial))

TITLE: Zone purification of strontium nitrate 17

SOURCE: IVUZ. Tsvetnaya metallurgiya, no. 3, 1966, 81-84

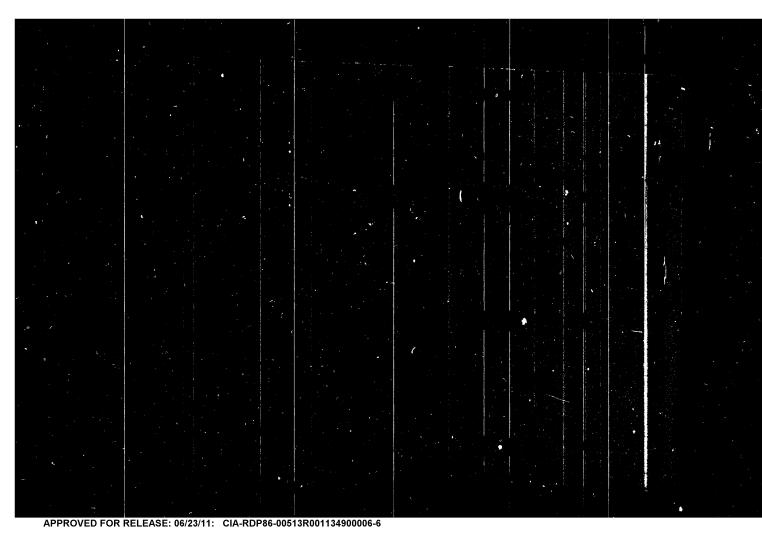
TOPIC TAGS: strontium compound, nitrate, calcium compound, chemical purity, zone refining, METAL PURIFICATION

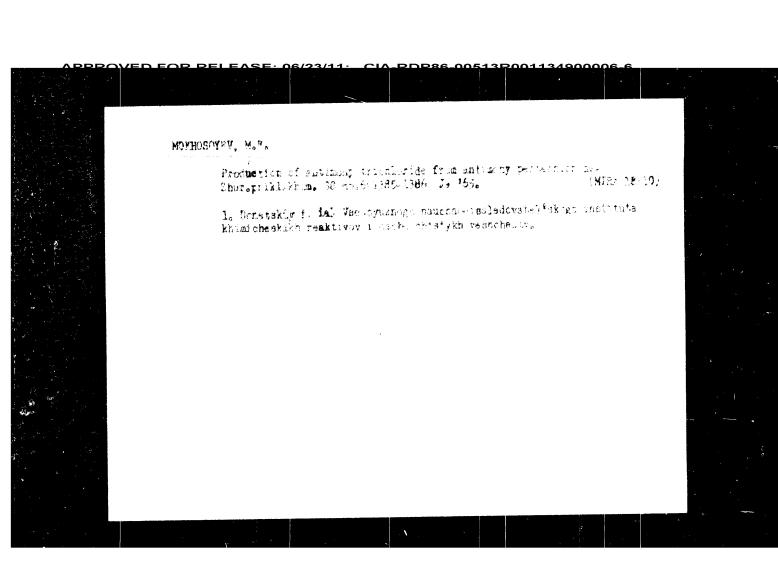
ABSTRACT: The zone melting method was used to investigate the feasibility of purifying compounds of strontium. On the basis of the physicochemical properties of strontium compounds, the eutectic mixture Sr (NO3)2 (55 wt. %) plus KNO3 was selected for zone purification. The nitrates of strontium and potassium of analytical grade were used as the starting raw material. The eutectic mixture was prepared by fusing catalytic quantities of the components with subsequent holding at the melting point for 1 hr and slow cooling to room temperatures. The alloy was ground, charged into ampules, and the ampules sealed. Zone purifica-

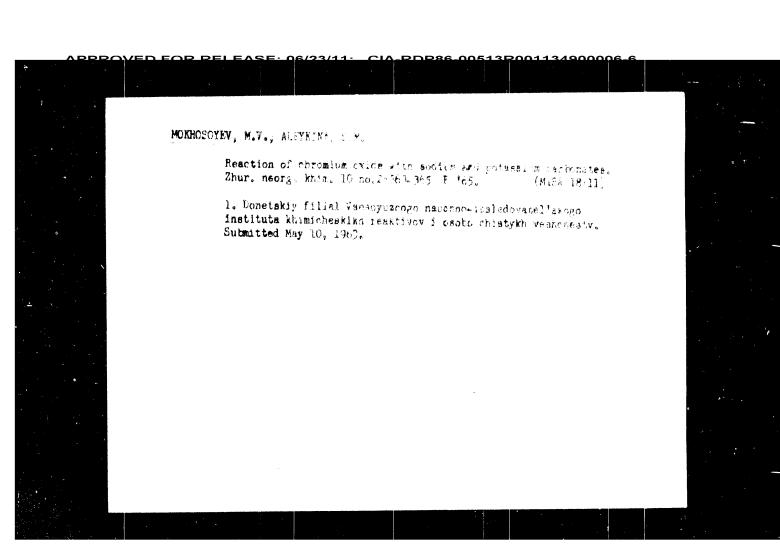
Card 1/2

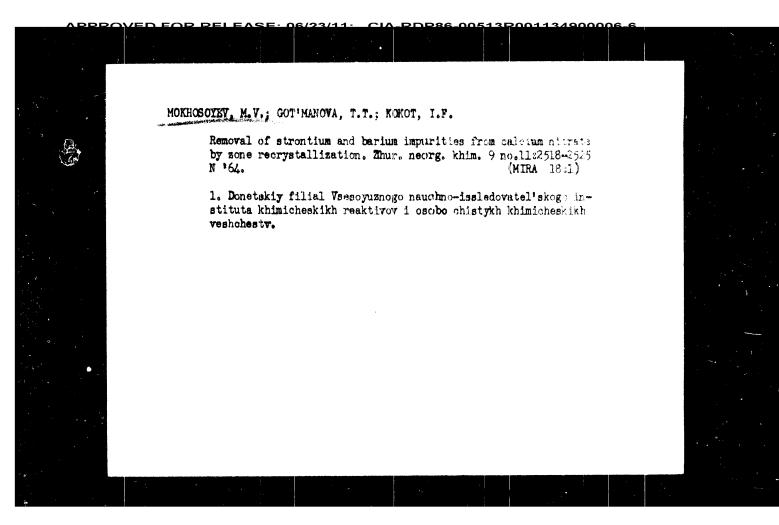
UDC: 669.2/.8.892

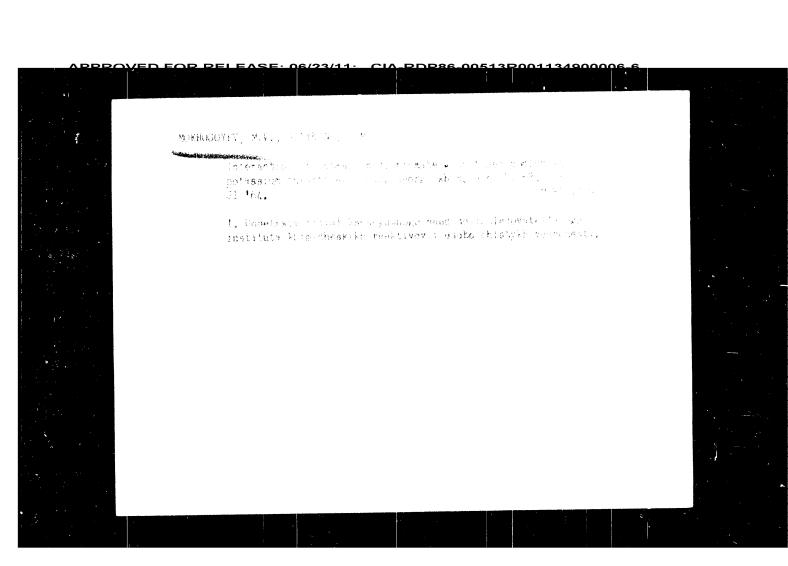
APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001134900006-6











ACCESSION NR: AP4009353

different congruent or incongruent melting points and that purification of sodium disungstate from Fe, Mg and Cu by zone melting is possible. Orig. art. has: 1 figure, 2 tables.

ASSOCIATION: Moskovsky tut tonky khimichesky tekhnologii im. Lomonosova (Moscow Institute of Fine Chemical Technology)

SUEMITTED: 04Jan63

DATE ACQ: 07Feb64 ENCL: 00

SUB CODE: CH

NR REF SOV: 006 OTHER: 000

APPROVED FOR RELEASE: 06/23/11: CIA_RDP86_00513P001134900006_6

ACCESSION MR: AP4009353

8/0078/64/009/001/0169/0172

AUTHORS: Mokhosoyev, M. V.; Fedorov, P. I.

TITLE: Interaction of sodium ditungstate with ferrous, magnesium and cupric tungstates

SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 1, 1964, 169-172

TOPIC TAGS: sodium ditungstate, ferrous tungstate, magnesium tungstate, cupric tungstate, sodium ditungstate purification

ABSTRACT: The purpose of this work is a method of purification of sodium ditungstate from admixtures of Cu, Mg, Fe and Pb by means of zone melting. The assumption is that they are present in the form of their tungstates, while silicon and chromium are present in the form of sodium silicate and chromate. Their interaction in melts was studied by preparing phase diagrams of binary melts of the above components with sodium ditungstate. Eutectic, liquidus, and polymorphic transformation temperatures were observed. It was revealed that the components of the tungstate compounds formed have

Card 1/2

ASSOCIATION: Veesoyuzny*y nauchno-issledovatel'skiy institut
khimicheskikh reaktivov i osobo chistikh khimicheskikh veshchestv.
khimicheskikh reaktivov i osobo chistikh khimicheskikh veshchestv.
khimicheskikh reaktivov i osobo chistikh khimicheskikh veshchestv.
Donetskiy filial. (All-winton Scientific Research Institute of
Donetskiy filial. (All-winton Scientific Research Institute of
Chemical Reagents and Ultrapure Chemical Substances. Donets branch)
Chemical Reagents and Ultrapure Chemical Substances.

SUBMITTED: 15Jun63

ATD PRESS: 3080

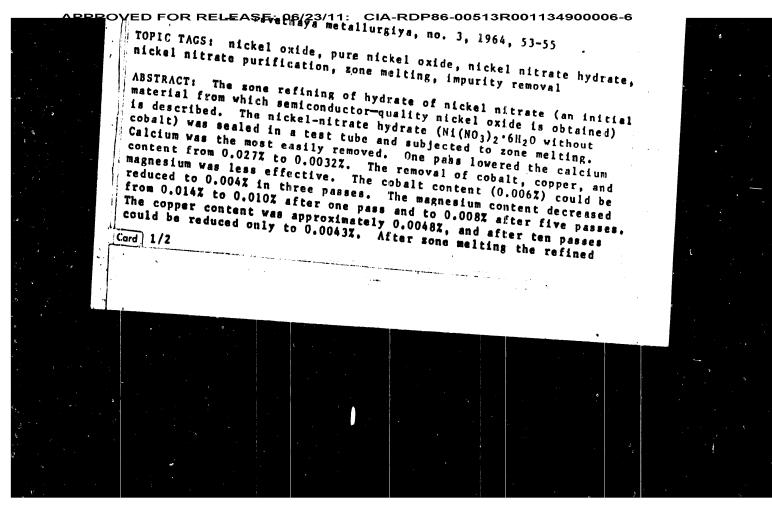
ENCL: 00

SUB CODE: MM, IC

NO REF SOV: 001

OTHER: 000

Cord 2/2



VED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001134900006-6

passage at a zonal speed rate of 7 mm per hour) reduced to 0.060%, and after 10 passages at 30 mm/hr to 0.018%. The eutectic blend of $Ba(NO_3)_2+BaCl_2$ contained 62 Mol% $Ba(NO_3)_2$ and had a melting point of 497C. The length of the combustion boat was 100 mm, and the length of the fused zone was kept at 10 mm. Five passages at 30 mm/hr reduced the calcium content from the initial 0.17% to 0.044%. The effect of the addition of 0.1% Mg(NO₃) and Sr(NO₃), on the removal of calcium from the $Ba(NO_3)_2+KNO_3$ cutectic blend was investigated, and favorable results were obtained. Orig. art. has: 1 table.

ASSOCIATION: Donetskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta khimicheskikh reactivov i osobo chisty*kh veshchestv (Donets Branch of the All-Union Scientific Research Institute of Chemical Reagents and High Purity Substances)

SUBMITTED: 08Apr63

DATE ACQ: 07Feb64

ENCL: 00

SUB CODE: CH

NO REF 30V: 006

OTHER: 006

Card 2/2

ACCESSION NR: APLICO9845

\$/0149/63/000/006/0120/0123

AUTHORS: Mokhosoyev, M. V.; Got'manova, T. T.

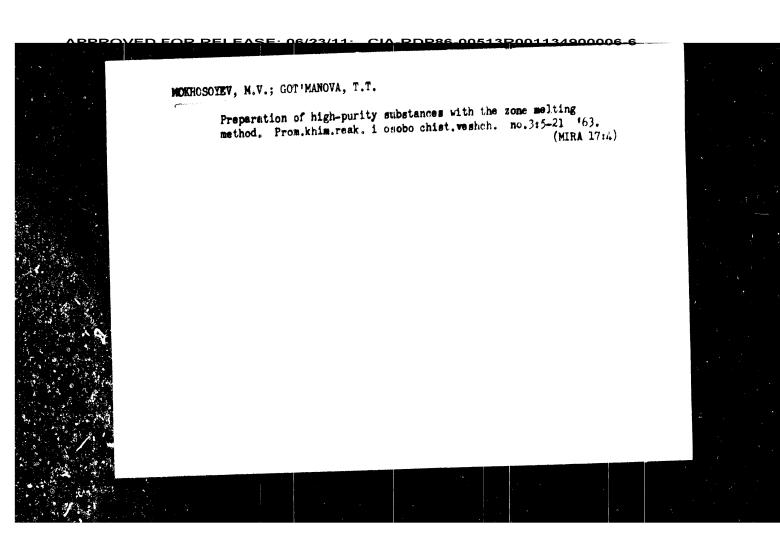
TITLE: Purification of barium compounds from admixtures of calcium by the method of sonal fusion

SOURCE: IVUZ. Tsvetnaya metallurgiya, no. 6, 1963, 120-123

TOPIC TAGS: barium, barium compound, barium nitrate, barium chloride, potassium nitrate, calcium, strontium, magnesium, purification, sutectic mixture, fusion, zonal fusion

ABSTRACT: The purification of barium nitrate was conducted in eutectic blands with potassium nitrate or barium chloride by the method of zonal fusion. The eutectic bland of Ba(NO₃)₂+KNO₃ contained 12 Mol/% Ba(NO₃)₂, and had a melting point of 285.7C. It was placed in 120-mm ampules, and the length of the fused sone was kept constant at 30 mm. It was found that the initial admixture of calcium of 0.018% was reduced to 0.0018% after one passage at a zonal speed rate shift of 7 mm per hour and to 0.0012% after 5 passages at a rate of 30 mm per hour. The purification of samples with an initial calcium content of 0.31% (after one

Card 1/2



ROMBOSOTEN, M.V.; KULESHOV, I.M.; FEDOROV, P.I.

Thermographic investigation of the systems consisting of potassium tetraspingstate - potassium carbonate and potassium tetraspingstate - potassium carbonate. Zhur, neorg. khim. 7 no. 7:11628-1631 I. 162.

potassium carbonate. Zhur, neorg. khim. 7 no. 7:11628-1631 I. 163.

1. Institut fisiobeskoy khimii AN SSSR i Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonaeva.
(Potassium carbonate) (Molybdates) (Tungstates) (Thermal analymis)

APPROVED FOR RELEASE: 06/23/11: CIA-PDR86-00513P001134900006-6

Zone-refining of acid tungstates

S/136/62/000/003/004/008 E021/E435

compounds contain small quantities of lead, iron, chromium, silicon and other elements which could affect the distribution coefficient of molybdenum. Experiments on sodium ditungstate showed that small quantities of lead or magnesium increased the degree of purification from molybdenum, whereas silicon and copper lowered the efficiency of purification. The coefficients of distribution K for other elements were also calculated (Table 4). The described method can also be used for purification of molybdenum compounds from tungsten. There are 4 tables.

Card 2/3

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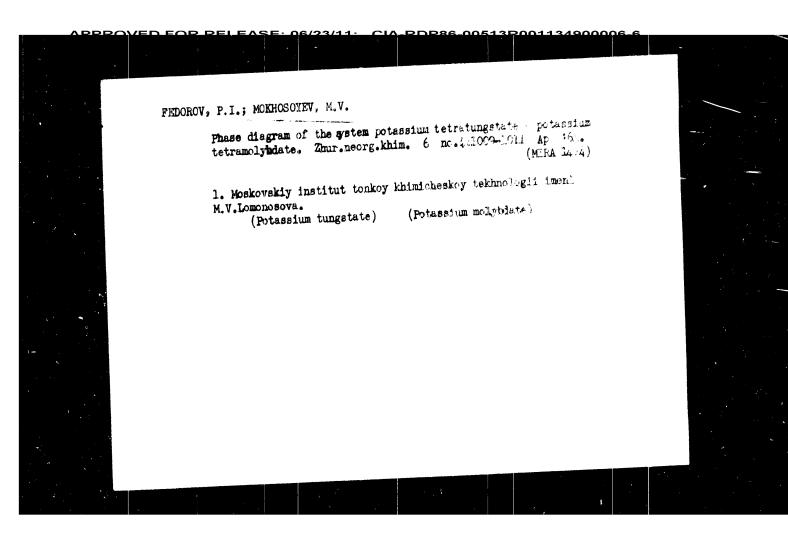
18.3400

AUTHORS: Fedorov, P.I., Mokhosoyev, M.V.

TITLE: Zone-refining of acid tungstates

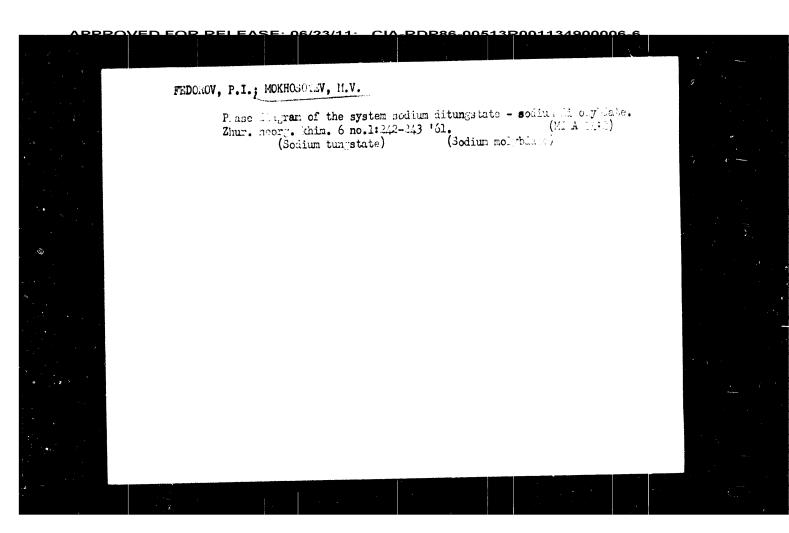
PERIODICAL: Tsvetnyye metally, no.3, 1962, 61-66

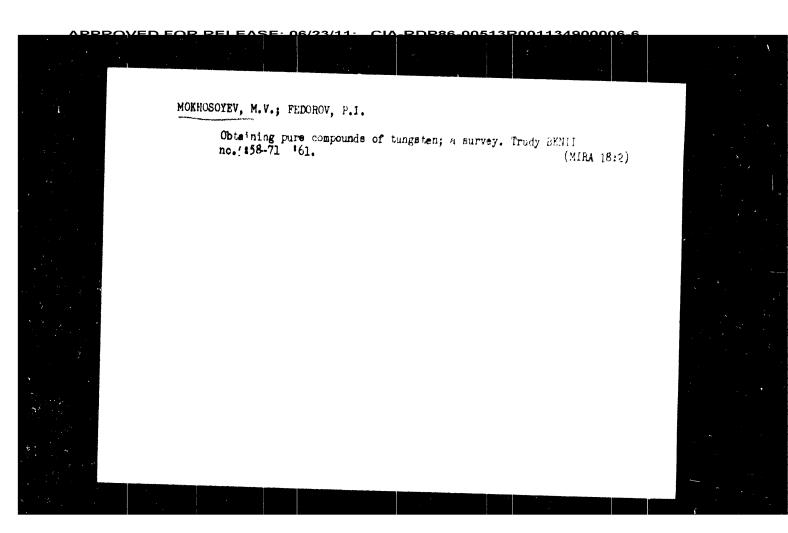
TEXT: Zone-refining experiments were carried out on tangsten compounds (Na2W2O7; K2W4O13; NaPO3·WO3) to remove isomorphous impurities of molybdenum. In the experiments, quartz and platinum boats on a horizontal apparatus were used. The zone platinum boats on a horizontal apparatus were used. The most refining was followed by spectrographic analysis. The most coefficients of lowest rate of traverse; the best results being obtained from a zone of 10 mm and a rate of 10 mm and a rate of 2 cm/hour. The coefficient of distribution for molybdenum under these conditions were 0.37, 0.20 and 0.60 for Na2W2O7, K2W4O13 and NaPO3'WO3, respectively. With increasing Mo concentration up to 1%, the coefficient of distribution decreased. Thus, for a zone of 15 mm and a rate of traverse of 2 cm/hour across Na2W2O7 the coefficient was 0.8, 0.72, 0.64, 0.59 and 0.52 for 0.098, 0.015, 0.08, 0.5 and 0.95 % Mo, respectively. Almost all tungsten Card 1/\$\mathref{X}\$



Interaction of sodium carbonate with sodium ditumgstate and sodium dimolybdate. Zhur. neorg. khim. 6 no.1:243-246 '61. (KLA 14:2)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova. (Sodium carbonate) (Sodium tungstate) (Sodium tungstate)





and the short hat 1) during the interaction of sodium ditungsates with a sodium chromate compound 2Na_Way 0, 3Na_Cp0, is formed (at 60 moi. \$ sodium chromate), which melte congruently at 650°C; 2) during the interaction of sodium ditungsates with sodium silicate, compound Na_Way 0, Na_SiO. is formed (at 50 moi. \$ sodium silicate), which melte incongruently at 700°C; 3) during the interaction of sodium ditungsates with lead tungsates, compound Na_Way 0, Na_SiO. is formed (at 50 moi. \$ sodium ditungsates with lead tungsates, compound Na_Way 0, PMOM, is formed (at 50 moi. \$ lead tungsates) in the solid phase. There are 3 figures, 1 table and 7 references: 6 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATIONS: Moskovskiy institut tonkoy khimicheskoy tekhnologii (Moscow Institute of Fine Chemical Technology); Kafedra khimii 1 tekhnologii redkikh i rasseyannykh elementov (Department of Chemistry and Technology of Rare and Dispersed Elements)

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Card 2/2